



PATIENT PRESENTING CLINICAL SIGNS

Tawnee Haney Early August, Tawney began sneezing and blood was seen at home. Mention in the records of an infected canine tooth (specific tooth was not named) were made. On August 14, 2023 a dental procedure was done. Two teeth (neither a canine) were extracted at the time of the dental. The sneezing and epistaxis continued post dental.

SPECIES

Canine

COMPUTED TOMOGRAPHIC STUDY OF THE HEAD AND THORAX

BREED

Cattle Dog X

A pre- and post-contrast CT study of the head and thorax are provided for review totaling 4 series. One pre-contrast series of the head, soft tissue algorithm. One post-contrast series of the head, soft tissue algorithm. One pre-contrast of the thorax, bone algorithm. One post-contrast of the thorax, bone algorithm.

COMPUTED TOMOGRAPHIC FINDINGS

SEX

Spayed

HEAD

AGE

8 Years

There is a large, soft tissue, mixed attenuation, and mildly enhancing mass effect within the right nasal cavity. The soft tissue mass effect extends rostrally to the level of the triadan 103 and caudally to the level of the nasopharyngeal meatus, cribriform plate, and ipsilateral frontal sinus. The mass effect is predominantly located within the right nasal cavity and causes regional turbinate destruction. There is deviation of the bony nasal septum and perpendicular plate of ethmoid bone due to the mass effect with mild left-side nasal cavity invasion.

INTERPRETED BY

Tilde Rodrigues Froes, DMV, MSc., Dr. Med Vet., Dipl. CBraRVet

There is multifocal thinning and osteolytic lesions in multiple adjacent osseous structures including the right maxilla, left palatine bone, right perpendicular plate of palatine bone, orbital process of the right palatine bone, squamous part of the right frontal bone, supraorbital margin of the right orbital bone, dorsal portion of the cribriform plate, and more caudal at the orbital portion of the right frontal bone. The mass effect measures approximately 6.2cm by 2.3cm by 1.8cm.

HOSPITAL NAME

Williamsport West Veterinary Hospital

The mass extends into the choana, causing invasion and obstructing 50% of the airway passage in some portions. In addition, there is an invasion by the mass into the right frontal sinus, mildly into the left frontal sinus and right dorsal periorbital region, and infiltration or fluid accumulation into the right sphenoidal region. There is a mild extension of the soft tissue mass to the left frontal sinus.

REFERRING VET

Stephanie Daverio, VMD

There is a small interruption of the cribriform plate with focal meningeal enhancement at the dorsal right portion of the olfactory bulb.

Triadans 108 and 208 are absent with retained root of the triadan 208. Mild horizontal and vertical bone loss along the teeth is seen and more exacerbated resorption adjacent to the alveolar bone of the topographic region of the triadans 108 and 109.

The bulla cavities and external auditory canals are normal.

INVOICE

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No mass effect is seen in the brain, normal attenuation.

The temporomandibular joints are bilaterally congruent.

DATE

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The globes and retrobulbar spaces are unremarkable.



PATIENT The medial retropharyngeal lymph nodes and mandibular lymph nodes are mildly asymmetrical, and the respective right lymph nodes are mildly enlarged.

Tawnee Haney

THORAX

SPECIES The trachea is normal in luminal diameter and position.

Canine The lumen of the main bronchus is normal.

BREED There is a mild reduction of the left lung lobe's volume expansion with peripheral alveolar ground glass attenuation. The remaining pulmonary parenchyma is normal in attenuation. No evidence of soft tissue nodules or micronodules.

Cattle Dog X

The cardiac silhouette and pulmonary vessels are normal. The contrast media adequately fills the cardiac chambers and vessels on post-contrast series.

SEX The tracheobronchial lymph nodes are normal.

Spayed The sternal, mediastinal, and cranial mediastinal lymph nodes are unremarkable.

AGE The pleural space and diaphragm are normal.

8 Years There is a moderate in size, rounded, fat-attenuating and homogeneous mass in the left axillar region, and measures approximately 5.1cm by 3.2cm by 3.0cm.

The collimated musculoskeletal structures are unremarkable.

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The collimated abdomen is unremarkable.

COMPUTED TOMOGRAPHIC DIAGNOSIS

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- Large mixed attenuation soft tissue mass effect in the right nasal cavity with signs of invasion into the frontal sinuses (> right side) and focus of thinning and osteolytic changes in adjacent cranial and facial bones. The differential diagnosis includes nasal neoplasm, for example, squamous cell carcinoma, chondrosarcoma, adenocarcinoma, or lymphoma.
- Minor involvement of the cribriform plate and minimal meningeal invasion.
- Mild infiltration of the mass into the right side of the choana, causing partial airway obstruction.
- Absent triadans 108 and 208, remaining small root fragment in the region of the triadan 208, mild diffuse periodontal disease.
- Left side pulmonary passive atelectasis, otherwise normal thorax, no evidence of pulmonary metastatic disease.
- Moderate in size subcutaneous lipomatous mass in the left axilla region.

REFERRING VET

Stephanie Daverio, VMD

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

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The CT study reveals a mass effect with aggressive behavior within the right nasal cavity causing invasion into the frontal sinuses (> right) with mild multifocal osteolytic changes, and meeting malignancy criteria. The tomographic findings are correlated with the present clinical signs of sneezing and nosebleed. The differential diagnosis includes neoplasms, for example, adenocarcinoma,

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PATIENT squamous cell carcinoma, lymphoma, or chondrosarcoma. A nasal flush and/or biopsy are needed for a definitive diagnosis.

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HOSPITAL NAME

Williamsport West
Veterinary Hospital

REFERRING VET

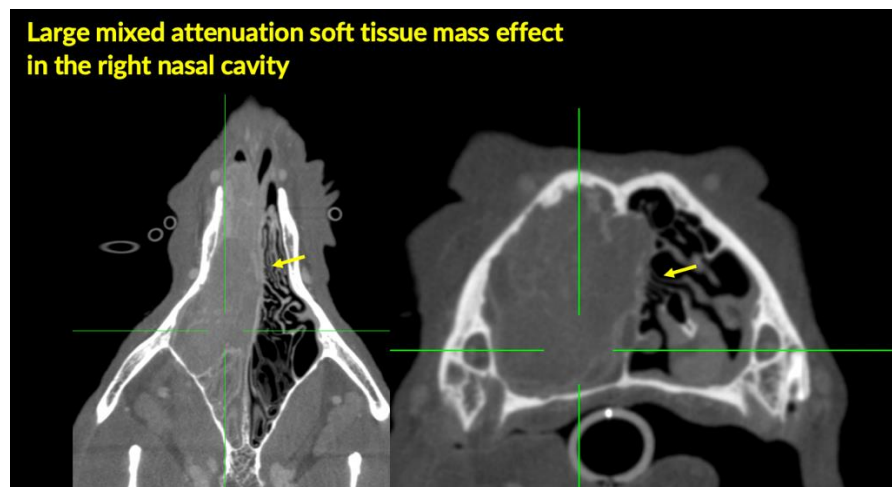
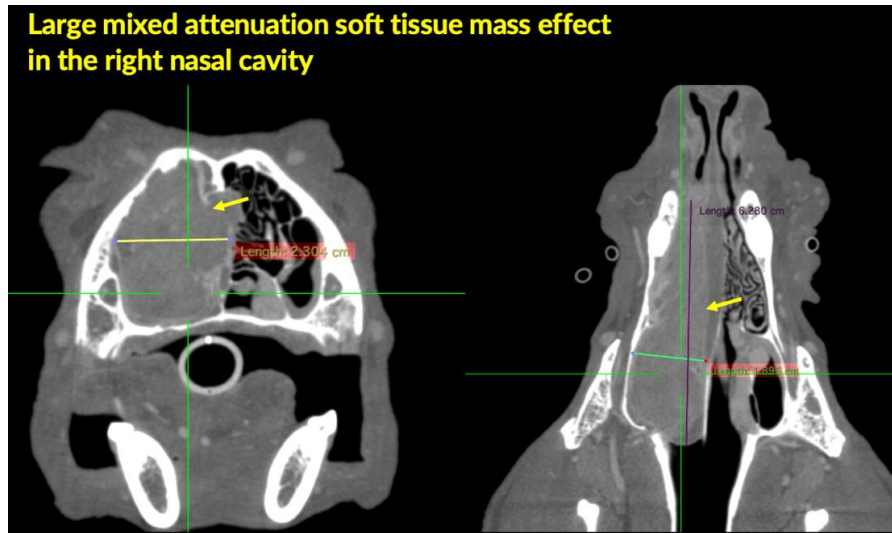
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VMD

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PATIENT

Tawnee Haney

SPECIES

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Left side pulmonary atelectasis, otherwise normal thorax



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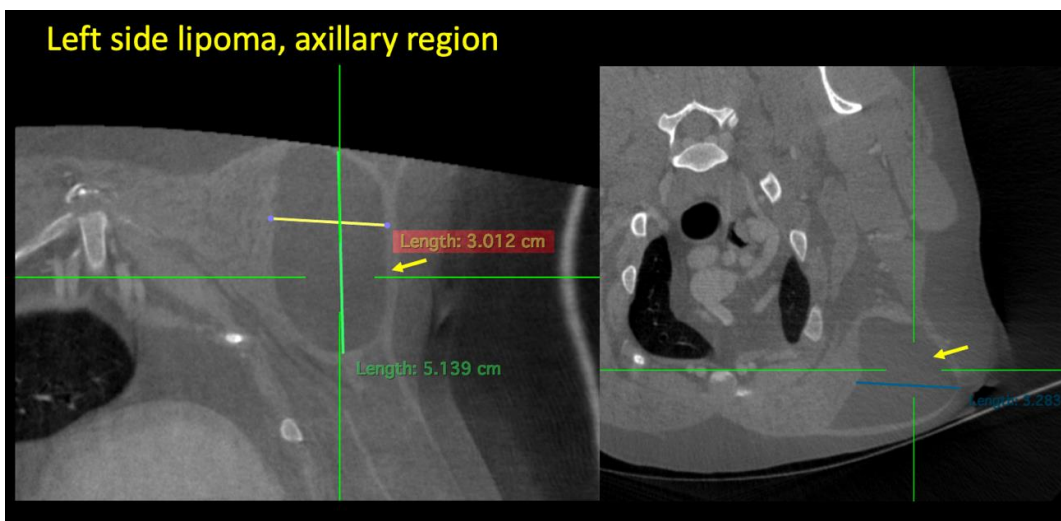
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VMD

Left side lipoma, axillary region



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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

SPECIES

Canine

Thank you for this referral. If the clinical or image interpretation does not parallel your findings or if I can be of any further assistance please contact me.

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